



# Inpatient Quality Indicator 90 (IQI 90)

## Mortality for Selected Inpatient Procedures

### July 2022

### Hospital-Level Indicator

### Type of Score: Ratio

#### Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

[qualityindicators.ahrq.gov](https://qualityindicators.ahrq.gov)

#### DESCRIPTION

The weighted average of the observed-to-expected ratios for the following component indicators:

- IQI 08 Esophageal Resection Mortality Rate
- IQI 09 Pancreatic Resection Mortality Rate
- IQI 11 Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate
- IQI 12 Coronary Artery Bypass Graft (CABG) Mortality Rate
- IQI 30 Percutaneous Coronary Intervention (PCI) Mortality Rate
- IQI 31 Carotid Endarterectomy Mortality Rate

The weights include component weights and shrinkage weights. The component weights are denominator weights, defined as the relative frequency of the denominators for the component indicators in the reference population. The shrinkage weights are the signal-to-noise ratio, where the signal variance is estimated from the reference population, and the noise variance is estimated from the user's data and is unique to each provider in the user's data.

**Table 1. Denominator Weights for IQI 90**

INDICATOR	WEIGHT
IQI 08 Esophageal Resection Mortality Rate	0.0075
IQI 09 Pancreatic Resection Mortality Rate	0.0259
IQI 11 Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	0.0474
IQI 12 Coronary Artery Bypass Graft (CABG) Mortality Rate	0.2454
IQI 30 Percutaneous Coronary Intervention (PCI) Mortality Rate	0.5864
IQI 31 Carotid Endarterectomy Mortality Rate	0.0874
SUM	1.0000

Source: 2019 State Inpatient Databases, Healthcare Cost and Utilization Program, Agency for Healthcare Research and Quality

For more information, see Quality Indicator Empirical Methods and Composite User Guide.